

Date: Tue, 5 Oct 93 04:30:43 PDT
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V93 #46
To: Ham-Space

Ham-Space Digest Tue, 5 Oct 93 Volume 93 : Issue 46

Today's Topics:

ORBS\$275.2liners

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Problems you can't solve otherwise to brian@ucsd.edu.

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We trust that readers are intelligent enough to realize that all text
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Date: 1 Oct 93 16:43:40 GMT
From: swrinde!sdd.hp.com!saimiri.primate.wisc.edu!caen!destroyer!nntp.cs.ubc.ca!
alberta!adec23!usenet@network.ucsd.edu
Subject: ORBS\$275.2liners
To: ham-space@ucsd.edu

SB KEPS @ AMSAT \$ORBS-275.N
2Line Orbital Elements 275.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT
FROM N3FKV HEWITT, TX October 2, 1993
BID: \$ORBS-275.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:
1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

A0-10

1 14129U 83 58 B 93269.62632466 -.000000053 00000-0 99999-4 0 376
2 14129 27.3156 4.2989 6026531 117.2716 315.3887 2.05880833 77357
UO-11
1 14781U 84 21 B 93273.60110102 .00000181 00000-0 34679-4 0 4427
2 14781 97.8037 295.3091 0012843 24.5844 335.5972 14.69058828512194
RS-10/11
1 18129U 87 54 A 93274.02182318 .000000088 00000-0 89554-4 0 6544
2 18129 82.9289 160.4043 0012963 29.9551 330.2339 13.72323681314367
AO-13
1 19216U 88 51 B 93269.09187191 -.000000232 00000-0 65920-3 0 6457
2 19216 57.8473 292.7149 7211645 324.9411 4.2235 2.09727479 68444
FO-20
1 20480U 90 13 C 93262.12161713 -.000000010 00000-0 65198-5 0 4565
2 20480 99.0281 100.4732 0540198 233.7673 121.2342 12.83221116169367
AO-21
1 21087U 91 6 A 93271.63376897 .000000084 00000-0 82656-4 0 8605
2 21087 82.9460 336.2742 0036941 92.9638 267.5716 13.74525333133654
RS-12/13
1 21089U 91 7 A 93271.88921976 .000000014 00000-0 88052-5 0 4267
2 21089 82.9212 205.2035 0029589 113.4076 247.0196 13.74026739132768
ARSENE
1 22654U 93031B 93253.49977207 -.000000056 00000-0 10000-3 0 236
2 22654 1.2946 120.3715 2933550 152.0186 99.4287 1.42203372 1781
UO-14
1 20437U 90005B 93273.74402670 .000000039 00000-0 22866-4 0 7767
2 20437 98.6085 356.8274 0010315 231.2276 128.7984 14.29793569192514
AO-16
1 20439U 90005D 93273.73976057 .000000032 00000-0 20232-4 0 5815
2 20439 98.6151 357.7986 0010489 232.0276 127.9958 14.29851668192529
DO-17
1 20440U 90005E 93273.71916563 .000000023 00000-0 16758-4 0 5831
2 20440 98.6160 358.0199 0010677 231.7721 128.2500 14.29988043192537
WO-18
1 20441U 90005F 93273.83012265 .000000031 00000-0 19837-4 0 5842
2 20441 98.6150 358.1481 0011162 231.6967 128.3213 14.29967002192559
LO-19
1 20442U 90005G 93273.75535182 .000000045 00000-0 25152-4 0 5811
2 20442 98.6159 358.2718 0011457 231.7620 128.2531 14.30058435192552
UO-22
1 21575U 91050B 93273.74550175 .000000092 00000-0 37922-4 0 2804
2 21575 98.4631 348.1156 0007889 352.8348 7.2724 14.36853144115824
KO-23
1 22077U 92 52 B 93263.67655469 .000000000 00000-0 99999-4 0 1156
2 22077 66.0792 124.2611 0001255 353.3278 6.7724 12.86279630 52121
AO-27
1 22825U 93061C 93274.12386161 -.000000103 00000-0 -33906-4 0 50
2 22825 98.6809 347.1732 0007375 241.9084 118.1352 14.27580958 727
IO-26

1	22826U	93 61 D	93272.86199979	.000000655	000000-0	28195-3 0	41
2	22826	98.6803 345.9208 0007952	245.7224 114.3082 14.27684427	538			
K0-25							
1	22827U	93061E	93274.12314011	.000000317	000000-0	14435-3 0	24
2	22827	98.6789 347.1689 0008256	229.1961 130.8504 14.27785690	728			
P0-28							
1	22829U	93 61 G	93272.52017860	.000002889	000000-0	11885-2 0	65
2	22829	98.6060 345.6230 0034766	196.6232 211.5064 14.27308199	498			
NOAA-9							
1	15427U	84123 A	93270.64371502	.000000096	000000-0	61218-4 0	4662
2	15427	99.0908 312.5447 0014265	238.9646 121.0126 14.13548181453256				
NOAA-10							
1	16969U	86 73 A	93273.05454252	.000000041	000000-0	25373-4 0	3102
2	16969	98.5172 284.9563 0014001	12.2442 347.9080 14.24833054365552				
NOAA-11							
1	19531U	88 89 A	93270.92231825	.000000073	000000-0	50010-4 0	2213
2	19531	99.1447 248.8132 0012208	146.2203 213.9754 14.12918124258182				
MET-3/3							
1	20305U	89086A	93273.86875201	.000000043	000000-0	10000-3 0	7395
2	20305	82.5458 90.3189 0014966	211.3850 148.6353 13.16023150189000				
FY-1/2							
1	20788U	90081A	93273.93341747	.000000177	000000-0	13993-3 0	6344
2	20788	98.8529 297.1371 0015867	19.0735 341.1022 14.01299199157382				
MET-2/20							
1	20826U	90086A	93273.83481420	.000000047	000000-0	36873-4 0	5869
2	20826	82.5293 352.3318 0014876	56.8293 303.4292 13.83559207151893				
MET-3/4							
1	21232U	91 30 A	93273.09340954	.000000043	000000-0	99999-4 0	4060
2	21232	82.5472 353.4800 0014452	113.4554 246.8089 13.16456469117126				
NOAA-12							
1	21263U	91 32 A	93271.08767618	.000000129	000000-0	66412-4 0	6772
2	21263	98.6498 299.2850 0012033	277.9887 81.9937 14.22313745123276				
MET-3/5							
1	21655U	91056A	93274.04083301	.000000043	000000-0	10000-3 0	4631
2	21655	82.5537 299.7610 0014526	119.9853 240.2720 13.16823685102349				
MET-2/21							
1	22782U	93 55 A	93272.04890292	.000000009	000000-0	26230-5 0	178
2	22782	82.5458 53.3688 0020914	237.8672 122.0460 13.82985484	3997			
MIR							
1	16609U	86017 A	93273.55553133	.000007726	000000-0	93742-4 0	3285
2	16609	051.6206 050.0286 0004335	158.3682 201.8178 15.59935938435560				
HUBBLE							
1	20580U	90037B	93273.92510529	.000000677	000000-0	56578-4 0	1965
2	20580	28.4692 102.7442 0004582	75.3996 284.7099 14.92845272187320				
GRO							
1	21225U	91 27 B	93274.05553739	.00032256	000000-0	18468-3 0	26
2	21225	28.4609 243.2107 0006141	87.0457 273.0958 15.77261674	16811			
UARS							

1 21701U 91063B 93273.96827791 .00003301 00000-0 31171-3 0 2573
2 21701 56.9841 117.6286 0004646 96.4517 263.7045 14.96165173112137
/EX

End of Ham-Space Digest V93 #46
